

Subject: MSD Colloquium, Thurs, 1/18, 11am, 212, A-157
From: Suzanne Kokosz <kokosz@anl.gov>
Date: Thu, 04 Jan 2007 09:12:50 -0600
To: Materials Science Division <msd@anl.gov>

SPEAKER: PROF. PAUL C. CANFIELD
Ames Laboratory and
Department of Physics and Astronomy
Iowa State University

TITLE: ³The Design, Growth, Discovery and Characterization of Novel
Intermetallic Compounds²

DATE: Thursday, January 18, 2007

TIME: 11:00 a.m.

PLACE: Building 212, Room A-157

HOST: Maria Iavarone

Refreshments will be available at 10:45 a.m.

Abstract:

The design and discovery of new materials is the engine that powers the majority of condensed matter research. In this talk I will present an overview of how the design and growth of novel intermetallic compounds can be used to explore the physics associated with compounds ranging from superconductors to heavy fermions to spinglasses, with stops at quasi-crystals and quantum criticality along the way. An emphasis will be placed on the motives for designing, or discovering, novel materials and the progression from novel material to model system.